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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/069,863	06/27/2002	Franciscus Antonius Jozef Van Boekel	0702-020284	7356
75	90 05/06/2003			
Russell D Orkin 700 Koppers Building 436 Seventh Avenue Pittsburgh, PA 15219-1818			EXAMINER HEITBRINK, TIMOTHY W	
	10215 1070		ART UNIT	PAPER NOMBER
			1722	
			DATE MAILED: 05/06/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/069,863	
Office Action Summary		VAN BOEKEL, FRANCISCUS ANTONIUS JOZEF
	Examiner	Art Unit
The MAILING DATE of this communication	Tim Heitbrink	1722
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet wit	h the correspondence address
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by state - Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication (c) filed as a fee	1.136(a). In no event, however, may a repepty within the statutory minimum of thirty of will apply and will expire SIX (6) MONTI ute, cause the application to become ABAI ing date of this communication, even if time	oly be timely filed (30) days will be considered timely.
is sommunication(s) filed on 16	September 2002 .	
2a) ☐ This action is FINAL . 2b) ☑ T	his action is non-final	
Since this application is in condition for allow closed in accordance with the practice unde Disposition of Claims	vance except for formal matte r <i>Ex parte Quayle</i> , 1935 C.D.	rs, prosecution as to the merits is 11, 453 O.G. 213.
4)⊠ Claim(s) <u>1-21</u> is/are pending in the applicatio	n.	
4a) Of the above claim(s) is/are withdra	IWN from consideration	
5) Claim(s) is/are allowed.	www.momoonsideration.	
6)⊠ Claim(s) <u>1-7,13-17 and 19-21</u> is/are rejected.		
7) Claim(s) <u>8-12 and 18</u> is/are objected to.		
8) Claim(s) are subject to restriction and/o	er election requirement	
11 apc13		
9) The specification is objected to by the Examine	r.	
10)∐ The drawing(s) filed on is/are: a)☐ accer	oted or h) objected to by the r	
request that any objection to the	Adrovina (-) la	
in a manning correction filled on	IS: a) approved b) dicor	e. See 37 CFR 1.85(a).
and required in ten	IIV TO This ()ttico cotice	pproved by the Examiner.
12) The path or declaration is objected to by the Exa	aminer.	
riority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of	Driority under 25 LLO O	
a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 11	9(a)-(d) or (f).
1. Certified copies of the priority documents	have been :	
2. Certified copies of the priority documents	have been received.	
 2. ☐ Certified copies of the priority documents 3. ☒ Copies of the certified copies of the priority 	nave been received in Applic	ation No
3. Copies of the certified copies of the priorit application from the International Bure * See the attached detailed Office action for a list of 14) Acknowledgment is made of a standard and a standard action.	f the certified copies	
real is made of a claim for domestic	Driority under 35 LLC C S 444	2/-> #
15) Acknowledgment is made of a claim for domestic	sional application has been re	eceived.
	1 1211, 411401 00 0,3.0, 99 12	20 and/or 121.
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	4) Interview Summa 5) Notice of Informa 6) Other:	ary (PTO-413) Paper No(s) I Patent Application (PTO-152)
stent and Trademark Office 326 (Rev. 04-01)	, <u></u>	

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The disclosure is objected to because of the following informalities: the specification mentions claims 9-11 and 17 on pages 6 and 9 to describe the invention. The specification should not depend upon the claims for a adequate description of the invention. Also, "sealing element 18" (page 8, lines 6,7) or "sealing ring 18" (page 8, line 8); "hard surface layer 29" (page 4, line 5) or "recess 29" (page 8, line 9) Appropriate correction is required.

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: "shoulder part 28" (page 6, line 31). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description: 34,38 and 39. A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the mould coated with Kapton (trademark) and enclosed in a metal cage as well as the control apparatus connected to a computer must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

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A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

The use of the trademark Teflon and Kapton has been noted in this application. It should be capitalized wherever it appears and be accompanied by the generic terminology.

Although the use of trademarks is permissible in patent applications, the proprietary nature of the marks should be respected and every effort made to prevent their use in any manner which might adversely affect their validity as trademarks.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2, 3, 14 and 18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 2, "with shrink fit" what? The Examiner suggests deleting "is provided with" should be changed to –will-- and "on" changed to --onto--.

In claim 14, "the nozzles" is incorrect. The Examiner suggests changing "nozzles" to --nozzle parts--.

Claim 18 contains the trademark/trade name Kapton. Where a trademark or trade name is used in a claim as a limitation to identify or describe a particular material or product, the claim does not comply with the requirements of 35 U.S.C. 112, second paragraph. See *Ex parte Simpson*, 218 USPQ 1020 (Bd. App. 1982). The claim scope

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is uncertain since the trademark or trade name cannot be used properly to identify any particular material or product. A trademark or trade name is used to identify a source of goods, and not the goods themselves. Thus, a trademark or trade name does not identify or describe the goods associated with the trademark or trade name. In the present case, the trademark/trade name is used to identify/describe a meterial and, accordingly, the identification/description is indefinite.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 5-7,13,16,17 are rejected under 35 U.S.C. 102(b) as being anticipated by Gellert et al. (US Patent 5955121).

Gellert et al. '121 discloses an injection molding device comprising a mold 18 which defines a mold cavity 16, in which mold is provided a flow channel 10,82,84,86,44 which flow channel extends through a manifold and a number of nozzles 24 connected to the manifold, the flow channel containing a number of transverse separating surfaces between nozzle 24 element 68 where a sealing element located in the flow channel 66 bridges the surfaces. See Fig. 3.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gellert et al. (US Patent 5955121).

While it is not disclosed in '121 the sealing element having a size where the ratio of the diameter of the flow channel, wall thickness of the bush and height of the bush equals 22:2:10, such a size is considered within the skill of the ordinary artisan when operation of the device is not otherwise modified as set forth in In re Dailey et al, 149 USPQ 47.

Claims 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gellert et al. ('121) as applied to claims 1,5-7,13,16 and 17 above, and further in view of Juel.

While Gellert et al. ('121) does not disclose semicircular clamping plates (forming a ring clamp) to join parts of the nozzle, Juel in the analogous art of extrusion molding teaches a nozzle having parts joined together by semicircular clamping plates forming ring clamps 4,6,8.

It would have been obvious to one having ordinary skill in the art at the time the invention was made use semicircular clamping plates to secure the nozzle parts together as suggested by Juel.

Claims 19 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gellert et al. ('121) as applied to claims 1,5-7,13,16 and 17 above, and further in view of Gellert et al. ('784).

While Gellert et al. ('121) does not disclose dual heaters and dual thermocouples, Gellert et al. ('784) discloses heaters 102 and 106 used to heat different

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parts of a nozzle at separate temperatures each having its own thermocouple to maintain the material therein at a proper temperature.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use dual heaters (each with its own thermocouple) in the nozzle of Gellert et al. ('121) in order to heat different parts of a nozzle at separate temperatures each having its own thermocouple to maintain the material therein at a proper temperature as suggested by Gellert et al. ('784).

Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gellert et al. ('121) as applied to claims 1,5-7,13,16 and 17 above, and further in view of Linchan.

While Gellert et al. ('121) does not disclose a computer used to the injection moulding device, Linchan teaches a computer connected to an injection moulding device to control the heat applied thereto.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to connect the injection moulding device of Gellert et al. to a computer as suggested by Linchan.

Claims 2 and 3 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

The above claims define over the prior art since the prior art fails to disclose or suggest a sealing element which will shrink fit on the structural components.

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Claims 8-12 and 18 are objected to as being dependent upon a rejected base

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claim, but would be allowable if rewritten in independent form including all of the

limitations of the base claim and any intervening claims.

The above claims define over the prior art since the prior art fails to disclose or

suggest an additional seal formed by self-sealing sealing rings, structural components

formed by the manifold and a nozzle and wiring coated with Kapton and enclosed in a

metal cage as set forth in the claims.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tim Heitbrink whose telephone number is 703-308-

3789. The examiner can normally be reached on Tuesday-Friday 5:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Wanda Walker can be reached on 703-308-0457. The fax phone numbers

for the organization where this application or proceeding is assigned are 703-872-9310

for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0661.

Tim Heitbrink
Primary Examiner

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5-2-03

twh

May 2, 2003